Progress Report

- Increment 1 -

Group #6

1) **Team Members**

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2) **Project Title and Description**

CompSci Course Schedule Overhaul

In this project, we hope to overhaul the schedule assistant and the degree progress program provided by FSU for computer science majors. The current iteration is disorganized and difficult to navigate. This project will combine aspects from the schedule assistant along with new features and additions to make course selection much easier and faster for computer science students.

3) **Accomplishments and overall project status during this increment**

- Login
    - The login page is functional with the ability to reset passwords if needed.
    - Authentication and password reset is performed using Firebase API calls.
    - Form input validation has also been implemented.
    - Basic application of third-party UI components have been added for styling
- Register
    - Contacts firebase and creates new users based on user input
    - Checks to see if valid email, if password is strong enough, if the email is not used already, and if both passwords match, and will return errors appropriately
- Web Page Routing
    - Handles connection between web pages including login/registration, homepage, and error checking.
- Account Setup Page
    - Allows the user to enter their first and last name and select what classes that they have already taken. It then stores this data inside our database, Firestore.
- Auth/Storage communication with Firebase
    - We use Firebase throughout the project to handle authentication and data storage.
    - The Login and Register pages use Firebase authentication to manage user accounts.
    - Various other pages use the Firestore database to store and retrieve the user's data.

The project has established a foundation through the account creation, login features, and communication with Firebase, the application has the necessary infrastructure for our future features and additions as mentioned in the proposal. Our proposal mentions a degree progress viewer which is a core feature that we have not yet implemented. Additionally, we have yet to add course description and professor SPCI ratings.

4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment

Challenges:
The biggest challenge during this first increment has been with climbing the learning curve associated with learning HTML, CSS, Javascript, and React at the same time. Our progress remained slow during the first half of the increment due to the need to read through documentation and tutorials. However, we were able to pick up a lot of the knowledge necessary to develop a React based web app with the help of many guides that are available.

Changes:
The main change that occurred from our initial plan that we had for our project was that we switched from using Ruby on Rails to using Firebase to handle the database. After learning more about Firebase, it made storing data and authentication very easy, so we figured that the switch would be very helpful.

Problems:
There were three issues that we initially added to our GitHub issue tracker which we have pushed back to the next increment due to time constraints.

5) Team Member Contribution for this increment

- Andrew Stade
    a) Section 1, Section 2, Section 3, Section 5, Section 6
    b) Section 1, Section 2, Section 3, Section 4, Section 5
    c) Section 1
    d) Assisted with the account verification, through email notifications and security codes along with the fundamentals of overall application design. Through the use of pair programming, was able to fully grasp the applications limits and contribute to development through a different point of view.
    e) Part A (Introduction)
- Frankie Messina
    a) Section 1, Section 2, Section 3, Section 5, Section 6, Section 7
    b) Section 1, Section 2, Section 3, Section 4, Section 5
    c) Section 1, Section 2
    d) Created Register branch, made functions for said branch/component, set up communication to firebase for creating users, set up error checking for user input, set register page to redirect/implement the register component, helped work on styles.css file to make the UI look better, changed button placement for better user experience.
    e) Part C (Demo), Part E (Plan for increment 2), and editing the video together
- Zach Porcoro
    a) Section 1, Section 3, Section 4, Section 5, Section 6, Section 7
    b) Section 1, Section 2, Section 3, Section 4, Section 5
    c) Section 1, Section 2
    d) Setup Firebase authentication and Firestore database, Created functions and objects (getUserData(), setUserData(), UserData) that store and access the user's data from Firestore, Created the account setup page that gets the user's name and completed classes

(using a custom CardButton component) and stores them into the database, set up the UI on the temporary home page, created the ClassInfo class that stores the information about the CS classes.

e) Part C (Demo) and Part D (Change in scope)

- Peter Vasiljev
  a) Section 1, Section 2, Section 3, Section 4, Section 5, Section 6, Section 7
  b) Section 1, Section 2, Section 3, Section 4, Section 5
  c) Section 1, Section 2
  d) Implemented login component, implemented page routing, implemented password reset, worked on component styling features such as page layout/colors/etc., contributed to current project file structure
  e) Part B (State of the project), Part C (Demo)
- Raul Rodriguez
  a) Section 1
  b) N/A
  c) N/A
  d) N/A
  e) N/A

6) Plans for the next increment

For the next increment, we intend to:

- Flesh out homepage
- Degree progress viewer in homepage
- Polish the UI/User Experience
- Functioning app bar for page navigation
- Add user account management
- Fix outstanding bugs
- Add additional login providers (Google, Yahoo, GitHub, Apple, etc...)
- Add a process for unit testing (JestJS)

7) Link to video

https://drive.google.com/file/d/1EWHg47GiAYrdHhGOj-76HRT0EQAx3WRb/view?usp=sharing